Chapter 9

Analytical and synthetic verbs: The lightness degree of ποιέω poiéō

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This chapter focuses on the alternation between analytic constructions (e.g., π αῖδας π οιοῦμαι paîdas poioûmai 'to beget children') and equivalent synthetic verbs (e.g., π αιδο π οιέω $paidopoié\bar{o}$ 'to beget children'). The synthetic forms are considered here as noun incorporations in synchrony, as the second element of the compound is a verb that can also occur as a free form. The analysis of data (from the 5th c. BC to the beginning of the 2nd c. AD) shows that the selection of either analytic or synthetic forms is made for (i) semantic reasons, i.e., the specificity of the noun, and (ii) textual reasons, i.e., the establishment of the referent in the discourse, closely related to the information structure. Moreover, the overlapping between support-verb constructions and incorporations only concerns so-called simple-event nominals, whereas complex-event nominals, which are fully predicative, cannot be incorporated. Analytic constructions equivalent to non-eventive noun incorporations are usually not support-verb constructions.

Questo capitolo è incentrato sull'alternanza tra costruzioni analitiche, come π αῖδας π οιοῦμαι paidas poioûmai 'generare figli'. Le forme sintetiche equivalenti, come π αιδοποιέω paidopoiéō 'generare figli'. Le forme sintetiche sono qui considerate incorporazioni del nome in sincronia, in quanto il secondo elemento del composto è un verbo che può occorrere anche in forma libera. L'analisi dei dati (dal sec. V a.C. all'inizio del II d. C.) mostra che l'alternanza tra forme analitiche e sintetiche è determinata i) da ragioni semantiche, ossia dalla specificità del nome, nonché ii) da ragioni testuali di instaurazione del referente nel discorso, strettamente legate alla distribuzione dell'informazione. L'area di sovrapposizione tra costruzioni a verbo supporto e incorporazioni, inoltre, riguarda solo i cosiddetti simple-event nominals, mentre i complex-event nominals, pienamente eventivi, non risultano mai incorporati. Le costruzioni analitiche che equivalgono a incorporazioni di nomi non eventivi non sono, invece, costruzioni a verbo supporto.



1 Introduction: analytical constructions, support verbs, and incorporations

This chapter examines the reasons for selecting either analytical verbal constructions (e.g., $\pi\alpha$ ῖδας π οιοῦμαι paîdas poioûmai 'to beget children', as in (1)) or synthetic verbs, such as instances of noun incorporation (e.g., π αιδοποιέω paidopoie 'to beget children', as in (2)) in Ancient Greek.

Φαίνεται τοίνυν ούχ ὁ (1) έμὸς πατήρ toínun oukh ho patèr phainetai emòs NEG ART.NOM.M POSS.NOM.M father.NOM.M be.plain.MID/PASS.3SG now πρῶτος ὧ ἄνδρες Άθηναῖοι, λαβὼν prôtos ô ándres Athēnaîoi labòn first.nom.m oh man.voc.m.pl Athenian.voc.m.pl take.Aor.ptcp.nom.m άλλ' ὁ τὴν μητέρα, Πρωτόμαχος, έμὴν tèn emèn mētéra all' ho Prōtómakhos ART.ACC.F POSS.ACC.F mother.ACC.F but ART.NOM.M Protomachus.NOM.M καὶ θυγατέρ' καὶ παῖδας ποιησάμενος kaì paîdas poiēsámenos kaì thugatér' and son.ACC.M.PL make.AOR.PTCP.MID.NOM.M and daughter.ACC.F ἐκδούς. ekdoús give.AOR.PTCP.NOM.M

'Now it is plain, men, that it was not my father who first received my mother in marriage. No; it was Protomachus, and he had by her a son, and a daughter whom he gave in marriage'

(Demosthenes, Speech 57.43)

¹The Greek texts considered in this article cover the period from the 5th c. BC to the beginning of the 2nd c. AD (Plutarch). They are quoted according to the editions in the *Thesaurus Linguae Graecae* (henceforth *TLG*) electronic corpus (https://stephanus.tlg.uci.edu); texts classified in the *TLG* as *Fragmenta* were excluded from the corpus. For the case study presented in Section 2, a sub-corpus has been considered (Section 2.1). English translations are based on the *Loeb Classical Library*. For the sake of readability, glosses are limited to basic morphological information (singular number not indicated for nouns, adjectives, participles, and articles; active voice, indicative mood, and present tense not indicated for verbs).

(2) Οὐκοῦν οὕτω γε οὐ δεῖ παιδοποιεῖσθαι; oukoûn hoútō ge ou deî paidopoieîsthai then in.that.case PRT NEG need.3sG child.make.INF.MID/PASS 'In that case then, they ought not to have children?'

(Xenophon, Memorabilia 4.4.23)

The specific aim of this chapter is twofold: (a) to identify the reasons for selecting either analytic constructions or synthetic verbs (Section 2); (b) to verify whether analytic predicates are always support-verb constructions (SVCs henceforth) or not, and, in the latter case, to highlight the consequences in terms of their possible equivalence with synthetic verbs (Section 3).

By SVCs we mean a type of complex predicate, a notion that originates in syntactic approaches such as Lexical-Functional Grammar (Bresnan 1982, 2001) and Relational Grammar (Perlmutter & Postal 1974). In the framework of the former, complex predicates are multi-headed predicates, i.e., they are "composed of more than one grammatical element [...], each of which contributes part of the information ordinarily associated with a head" (Alsina et al. 1997: 1). This is, for instance, the position of Butt (2010: 49): she considers support verbs (SVs henceforth) complex predicates, and argues that "the term complex predicate designates a construction that involves two or more predicational elements (e.g., nouns, verbs and adjectives) which predicate as a single unit". From this perspective, SVs are not completely empty elements with respect to the dense meaning spectrum of the equivalent lexically full verb (e.g., SV give someone a kiss vs. give him a ball; cf. Butt & Geuder 2001: 326; 339-340). From the perspective of Relational Grammar, different predicates may exist in a single clause (clause union) as long as they are placed in successive strata (rather than in the same stratum) in a multi-stratal structure (La Fauci & Mirto 2003: 45–59 on Italian, inter alia).²

These perspectives are significantly different from earlier approaches to SVs, which do not allow for two predicates in a clause (Gross 1996: 55), as the predication is conceived as unique and completely noun-dependent (Gross 2004: 167). For instance, Jespersen (1942: 117) considers the verb in Verb + Noun (V + N henceforth) constructions, such as *to have a swim, to take a walk*, and *to give a*

²The multi-stratal approach of *Relational Grammar* involves the positing of grammatical relations at various levels or strata. In particular, the predicative noun is considered the initiator-predicate of the construct in the lowest stratum (La Fauci & Mirto 2003: 45–59). In order to license the subject of a proposition, it needs the aid of a non-initiator-predicate (e.g., the Italian support verb *fare* 'to do' in *fare un peccato* lit. 'to do a sin' > 'to commit a sin'): it is located in the successive stratum and makes the subject pertain to the whole SVC (La Fauci & Mirto 2003: 46).

sigh in English, as a "light verb", i.e., "an insignificant verb, to which the marks of person and tense are attached, before the really important idea" conveyed by a deverbal noun that usually expresses 'the action or an isolated instance of the action'. Such an idea of verb lightness highlights the semantic bleaching of the verb.

In a similar way, in the French definition of *verbe support* the morphosyntactic function of the verb is indicated exclusively. Indeed, the verb is considered as mere support, encoding only grammatical categories such as Tense-Aspect-Mood and agreement features, but it does not predicate: it only "actualises" the predicative noun (*prédicat nominal*)—in which the whole predication stands—thus having the same function as verb endings (Gross 2004: 167).³ Overall, we find ourselves in opposition to this narrow binary division between a predicative noun and an empty verb, as will be discussed in detail below (Section 3).

Synthetic verbs such as π αιδοποιεῖσθαι paidopoieisthai 'to beget children' in (2) can be considered instances of incorporation (Pompei 2006, Pompei & Grandi 2012), namely, a compounding process between a verb and another part of speech that yields a new verb (Baker 1988). In particular, in (2) there is an instance of noun incorporation, i.e., a process of composition of a noun and a verb, which outputs a new verb form ([N+V]_V) (Sapir 1911: 257, passim; Mithun 1984, 1986, 1997). As is well known, this is a very productive process in polysynthetic languages, particularly in compositional ones (Mattissen 2023):

(3) a. *Pet wa'-ha-htu-'t-a' ne' o-hwist-a'*Pat past-3ms/3N-lost-caus-asp the pre-money-suf

(Onondaga, Iroquoian)

'Pat lost the money'

(Baker 1988: 76-77)

b. Pet wa'-ha-hwist-a-htu-'t-a'

(Onondaga, Iroquoian)

Pat past-3ms-money-ep-lost-caus-asp

'Pat lost money'

(Baker 1988: 76–77)

There is an analytical form in (3a), i.e., a verbal phrase made up of a verb form followed by a noun phrase that is its direct object; on the other hand, the synthetic verb form in (3b) is the result of the incorporation of the noun into the verb (in this case with the interposition of an epenthetic vowel). It is worth noting that the incorporated noun is a bare one, as in this case both the prefix

 $^{^3}$ See Pompei et al. (2023: 1–6) for a review of different theoretical perspectives on the notion of SV.

—which is a gender marker—and the suffix—which marks the lexical category—are missing, as well as the article marking definiteness.

Despite its wide productivity in polysynthetic languages, incorporation is not an exclusive phenomenon of this morphological type. As far as Ancient Greek is concerned, there are formations—such as παιδοποιέω paidopoiéō 'to beget children', σιτομετρέω sitometréō 'to measure the wheat/provisions', καρπολογέω karpologéō 'to gather fruit', λογογραφέω logographéō 'to write speeches'—which show the same features as incorporation in polysynthetic languages from the morpho-phonological, semantic, and pragmatic points of view (Pompei 2006). Diachronically, these formations have usually been considered as formed by conversion from both nominal compounds (e.g. λογογραφέω logographéō 'to write speeches' < λογογράφος logográphos 'speech writer') and adjective ones (e.g. καρπολογέω karpologéō 'to gather fruit' < καρπολόγος karpológos 'gathering fruit'; cf. Meissner & Tribulato 2002: 301).

Synchronically, some of these formations can be considered instances of effective noun incorporation, i.e., instances of composition (cf. Pompei & Grandi 2012, from a *Construction Grammar* perspective). In particular, this is true in cases in which the second element is a verb that can also occur as a free form, as the comparison between (1) and (2) clearly shows with regard to π oιέω poiéō 'to do, make'. For this reason, our comparison between analytical and incorporated constructions will focus on this verb.⁵

2 First research question: selecting analytical constructions or incorporations

We will consider the selection of the constructions $\pi\alpha$ ãδας π οιοῦμαι paîdas poioamai 'to beget children' and the equivalent incorporation as a case study to answer our first research question, i.e., what are the reasons for selecting either analytic constructions or synthetic verbs, like noun incorporations. In this section we are

⁴Incorporation can also occur in agglutinative languages, such as Japanese (e.g., Grimshaw & Mester 1988: 229), and even in isolating ones, such as Chinese (Luo 2022, *inter alia*). As far as fusional languages are concerned, the equivalence between Latin synthetic and analytical verbs, such as *belligero* ~ *bellum gero* 'to wage war' and *ludifico* ~ *ludos facere* 'to make an object of sport, trifle with', have been studied by Baños (2013, 2012).

⁵In this chapter we do not consider instances like σιτομετρέω *sitometréō* < σῖτον μετρέω *sîtom metréō* 'to measure the wheat/provisions', as these are examples of collocations in which the verb retains its lexically full meaning. On the other hand, according to Ježek (2016: 205), SVCs are "*noun-oriented* collocations" on the noun, i.e., preferential combinations of a verb with a general meaning and a noun with a predicative value.

not specifically interested in the nature of the analytical constructions in question—i.e., whether they are SVCs or not—since the degree of predicativeness of the noun in the SVCs will be discussed below (Section 3.2). However, some preliminary considerations can be made.

A battery of tests has been developed to recognise SVCs (Langer 2004, *inter alia*). Of these, (i) the possibility of the SVC being replaced by a synthetic verb, see (4), and (ii) the so-called "reduction test", see (5) (Gross 1981: 39–43; Giry-Schneider 1987: 28), within a traditional perspective, are considered particularly significant in revealing the predicativeness of the noun, on the one hand, and the consequent emptiness of the SV, on the other:

- (4) a. to give a slap \sim to slap
 - b. to take a walk \sim to walk
- (5) a. John gave a slap to Mary \rightarrow The slap that John gave to Mary \rightarrow John's slap to Mary
 - b. John took a walk \rightarrow The walk that John took \rightarrow John's walk

The criterion of the substitution of an SVC by a synthetic verb, see (4), is used to distinguish SVCs from other types of lexical combinations (e.g., "normal" collocations in which the verb retains its full lexical meaning). Indeed, it shows that the concept analytically conveyed is equivalent to that expressed through a single verbal form, usually in cases in which the synthetic verb and the noun are morphologically linked, as either the noun is deverbal (walk) or the verb is denominal (slap). On the other hand, (5) shows that the meaning of the noun does not seem to be affected by the deletion of the verb in SVCs. As for $\pi\alpha\tilde{\iota}\delta\alpha\varsigma$ $\pio\iota\tilde{\iota}\omega$ $pa\hat{\iota}das$ $poio\hat{u}mai$ 'to beget children'—with reference to its occurrence in (1)—we can observe that if Protomachus had children by the mother of Euxiteus, those children would actually be 'Protomachus' children'.

⁶However, not all the unitary concepts present both forms of expression—analytical and synthetic—in all the languages (Ježek 2004: 192). In English, for example, a synthetic form for *to beget children* might be *to procreate*, which is morphologically unrelated, or perhaps *father*, which is related lexically, whereas in Italian *fare figli* 'to beget children' corresponds to the denominal verb *figliare*, although this is mainly used in reference to animals (similar to the English *to lamb* relating to sheep, *to pup* to dogs, and so on).

⁷Nevertheless, in this case it is not easy to establish if the reduction test actually applies, namely, if 'Protomachus' children' derives a) from the sequence 'the children that Protomachus begot'

^{← &#}x27;Protomachus begot children', or b) from the sequence 'the children that Protomachus has'

 $[\]leftarrow$ 'Protomachus has children', in addition to the possibility that c) the government of the argument 'Protomachus' by 'children' is simply due to the relational nature of kinship nouns. Note that the translation of $\pi\alpha i\delta\alpha\varsigma$ *paîdas* 'children' as 'son' in (1)—which is commented upon here— is how the item is rendered in the Loeb edition, even if the noun is plural in Greek.

2.1 Sub-corpus

The corpus for the case study on παῖδας ποιοῦμαι paîdas poioûmai 'to beget children' and παιδοποιοέω paidopoiéō 'to beget children' concerns the Classical period.⁸ There are 10 occurrences of the analytic construction (Table 1), whilst there are 31 occurrences of incorporation (Table 2):

Table 1: Occurrences of παῖδας ποιοῦμαι paîdas poioûmai 'to beget children'

Isocrates	Xenophon	Plato	Demosthenes	Aristotle	Total
2	1	4	2	1	10

Table 2: Occurrences of παιδοποιοέω paidopoiéō 'to beget children'

Euripides	Sophocles	Isocrates	Aristophanes	Andocides	Xenophon
2	1	1	1	1	9
Plato	Hippocrates	Demosthenes	Aeschines		Total
5	1	6	4		31

It is worth noting that all 10 occurrences of the analytical construction are in the middle-passive voice, and that the noun is always in the plural; only in one case does $\pi\alpha\tilde{\imath}\delta\alpha\varsigma$ paîdas co-occur with the article, see (11) below. The most frequent form is the infinitive (7 out of 10 occurrences; 70%). On the other hand, out of 31 instances of incorporation, 26 (83.87%) are in the middle-passive voice; 9 forms are participles (29.03%), while 12 are infinitives (38.70%).

⁸The corpus was created by (Ricci 2016) from the online edition of the *Thesaurus Linguae Grae-cae* and it comprises all the authors from the Archaic period to the 4th c. BC. However, no occurrences were found prior to the Classical period. The only possible exception is in Septem Sapientes, *Apophthegmata* 5.7 = Stobaeus, *Flor*. LXVIII.34, but since this instance is only documented by the indirect tradition in a fragment of Stobaeus, it was deemed more prudent to exclude it. Examples (1) and (2) are part of this corpus.

⁹In fact, the noun is singular in Homer, *Iliad* 9.495 although it is not an object so much as a predicative of the object. It has therefore not been included in the sample. The noun in the analytical form is always in the accusative, with the exception of one passage (Isocrates, *Speech* 4.42), where the infinitive π οιήσασθαι *poiḗsasthai* 'to make' actually governs the pronominal forms τοὺς μὲν... τοὺς δ' *toùs mèn... toùs d*' 'some... others', followed by the partitive τῶν παίδων *tôn paidōn* 'of the children'. On the preponderance of middle-passive forms in SVCs, see Marini (2010) and Jiménez López (2011).

2.2 Semantic reasons

The findings of our sub-corpus show that the first reason for the selection of analytical constructions is semantic in nature. For instance, in (1) Euxiteus observes that his mother, before marrying his father, was married to Protomachus, who begot children with her, one of whom he gave in marriage. These children are thus Euxiteus' siblings and he is aware of their existence; hence, they are specific people. By specificity we mean the use of a Noun Phrase when the speaker knows which individual he is referring to (Hawkins 1978; Lehmann 1984: 259–261; von Heusinger 2002: 10; von Heusinger & Kaiser 2003: 45; Vester 1989: 335–336 on Latin).

Therefore, in (1) the signifier $\pi\alpha\tilde{\iota}\delta\alpha\varsigma$ $pa\hat{\iota}das$ 'children' has a non-empty reference. Indeed, the logical value of existence in a possible world is linked to the notion of referentiality, which is equivalent to specificity from a semantic point of view (Givón 1978: 293). By contrast, if a nominal is generic, the speaker does not have any commitment to the existence of its referent in a possible world. Instances of genericness are the cases of $\pi\alpha\iota\delta\sigma$ - paido- as the first element of the incorporation $\pi\alpha\iota\delta\sigma\pi\iota\dot{\epsilon}\omega$ $paidopoi\dot{\epsilon}\bar{o}$ 'to beget children', in (2) and in all the other 30 occurrences in Table 2.

In fact, incorporated nouns are devoid not only of any determiner but also of the information conveyed by endings (i.e., number, grammatical gender, case), being downgraded to the root plus a readjustment vowel (Pompei 2006): features such as gender, number, and definiteness are referential parameters (von Heusinger & Kaiser 2003). This lack of semantic referentiality—i.e., of specificity—in incorporated nouns is consistent with the main function of incorporation according to Mithun (1984), namely, to create "labels" to denote states of affairs that are conceptually unitary and worthy of being indicated by means of a single word. Therefore, the incorporated noun only serves to specify the meaning of the verb, i.e., to "qualify" the verb rather than to "refer" (Mithun 1984: 866); it is not marked for referentiality/specificity (Mithun 1984: 859).

However, in our corpus for this case study, the feature of specificity explains the selection of the analytical form in only two of the 10 occurrences (18%), viz., the extract in (1), and in (6):

ἐποιήσω, ὡς ἀρεσκούσης σοι τῆς πόλεως. epoiésō hōs areskoúsēs soi tês póleōs make.Aor.mid.2sg as.if please.ptcp.gen.f 2sg.dat art.gen.f city.gen.f '[so you certainly preferred us and agreed to live in accordance with us;] and besides, you begat children in the city, showing that it pleased you' (Plato, Crito 52c)

In (6), the subject of $\pi\alpha$ ῖδας ἐποιήσω paîdas epoiḗsō 'you begat children' is Socrates, who, condemned to die, is rebuked by Crito for accepting death rather than going into exile and saving his life. Socrates responds to Crito's accusations with a prosopopoeia of the Laws: they (the Laws) address Socrates, reminding him of how he had agreed to live under those same Laws that have now condemned him to death, albeit having been raised and educated in Athens and also having fathered children there. Therefore, in this case the children are Socrates'.

By contrast, in all the other occurrences, the noun of the analytical construction does not refer to specific entities. Indeed, it is always found in the plural, which is usually an indication of greater genericness (Timberlake 1975: 225). This means that all the other occurrences of analytical constructions are not selected for semantic reasons. For instances, in (7) and (8) the noun $\pi\alpha\tilde{\imath}\delta\alpha\varsigma$ paîdas 'children' is clearly generic, as in these instances children do not exist at all, no act of generation having taken place:

(7) ἕτι δὲ πρὸς τούτοις οὔτε γυναῖκα dè pròs toútois oúte gunaîka éti besides PRT beyond DEM.DAT.N.PL NEG WOMAN.ACC.F οὔτε παῖδας γήμας ποιησάμενος gémas oúte paîdas poiēsámenos marry.Aor.ptcp.nom.m neg child.Acc.m.pl make.Aor.ptcp.mid.nom.m [...] [...]

'Moreover, he did not marry and beget children' [...]

(Isocrates, *Speech* 15.156.4)

ò **Άσσύριος** (8)σοῦ δ', ἔφη, ὧ Γαδάτα, ô Gadáta ho soû éphē Assúrios 2sg.gen prt say.impf.3sg oh Gadatas.voc.m art.nom.m Assyrian.nom.m παῖδας μέν, ὡς ἔοικε, ποιεῖσθαι τò paîdas mén hōs éoike tò poieîsthai child.ACC.M.PL PRT as seem.PRF.3SG ART.ACC.N make.INF.MID/PASS

ἀφείλετο, οὐ μέντοι τό γε φίλους apheíleto ou méntoi tó ge phílous

take.away.Aor.mid.3sg neg at.any.rate art.acc.n prt friend.acc.m.pl

δύνασθαι κτᾶσθαι ἀπεστέρησεν dúnasthai ktâsthai apestérēsen be.able.INF.MID/PASS acquire.INF.MID/PASS deprive.AOR.3SG

"From you, Gadatas," [Cyrus] went on, "the Assyrian has, it seems, taken away the power of begetting children, but at any rate he has not deprived you of the ability of acquiring friends"

(Xenophon, Cyropedia 5.3.19)

To sum up, genericness is a compelling constraint for selecting instances of incorporation: specific nouns cannot be incorporated (see (1)) and (6)). When the conditions of use of $\pi\alpha$ iδας π οιοῦμαι paidas poioûmai 'to beget children' are very similar to those of incorporation from a semantic point of view, as the noun is generic (see (7) and (8)), the reasons for the selection are not semantic (Section 2.3).

2.3 Textual reasons

When the conditions for the use of $\pi\alpha$ ῖδας π οιοῦμαι paidas poioûmai 'to beget children' are not semantic in nature, they are textual. On this level of analysis, the meaning of the term referentiality does not relate to the logical-semantic value of existence in a possible world, but to the establishment of a referent in the discourse, which may be a "manipulable noun" to use Hopper & Thompson's (1984: 711–713) term. This means that the noun is a free form because it serves the text grounding. An interesting case is provided in (9):

(9) γὰρ οὐ χρὴ ποιεῖσθαι παῖδας ή gàr ou khrè poieîsthai paîdas either for NEG ought.3sg make.INF.MID/PASS child.ACC.M.PL or συνδιαταλαιπωρείν καὶ τρέφοντα καὶ παιδεύοντα. sundiatalaipōreîn kaì tréphonta kaì paideúonta stay.by.inf and bring.up.PTCP.ACC.M and educate.PTCP.ACC.M Either one ought not to beget children, or one ought to stay by them and bring them up and educate them'

(Plato, Crito 45d)

In this case, the conditions of use of $\pi o \iota \epsilon i \sigma \theta \alpha \iota \pi \alpha i \delta \alpha \varsigma$ poieîsthai paîdas 'to beget children' are really very similar to those of incorporation from a semantic point of view as the noun is generic. However, from the perspective of text

grounding, it is necessary for $\pi\alpha\tilde{\iota}\delta\alpha\varsigma$ $pa\hat{\iota}das$ 'children' to be a free form in order to be taken up in the reference tracking, and in particular by the null argument of the verbs that follow, i.e., by zero anaphora. Conversely, incorporated nouns do not usually constitute the starting point for reference tracking: being decategorised, they are non-prototypical nouns, whence they do not introduce participants into the discourse, like all nouns that are not the head of a compound. ¹⁰

In an anaphoric chain, reference tracking might take place through different strategies, such as pronouns (including null ones, as in (9)), copies or semi-copies of the head lexeme, paradigmatic relations, and so on. In (1), for instance, there is a paradigmatic relation of hyponymy between $\theta v \gamma \alpha \tau \epsilon \rho \alpha$ thugatéra 'daughter' and $\pi \alpha \tilde{\iota} \delta \alpha \zeta$ paîdas 'children'. This means that textual reasons also apply when semantic reasons are present.

When there are no reference tracking reasons, the selection of the analytical construction is, in any case, usually due to the need for $\pi\alpha\tilde{\imath}\delta\alpha\varsigma$ *paîdas* 'children' to occur as a free form to establish a referent—i.e., a Topic—in the discourse, perhaps as an element of a conjunct, see (6), which may also be negative, see (7), or of a correlation with a contrastive value, see (8). Since in all these cases there is the establishment of a Topic, textual reasons might also be considered as due to Information Structure, sometimes not disjunct from stylistic requirements.¹¹

In (10), for instance, there is a parallelism between ὅτι πλείστους ποιεῖσθαι παῖδας hóti pleístous poieîsthai paîdas 'have as many children as possible' and ὡς πλείστους εἶναι τοὺς Σπαρτιάτας hōs pleístous eînai toùs Spartiátas 'make

¹⁰In fact, this is true for noun incorporation originating from lexical compounds—as occurs with Ancient Greek incorporation (Section 1)— according to the recent classification proposed by Olthof (2020). She deals with a sample of 21 languages, taking into account the two parameters of the modifiability and referentiality of the incorporated noun. The latter parameter is defined in pragmatic terms within the *Functional Discourse Grammar* framework (Hengeveld & Mackenzie 2008); the former is not pertinent to Ancient Greek, in which incorporated nouns cannot be modified. Cf. Pompei (2024) on the application of Olthof's (2020) model to Ancient Greek.

¹¹The notion of Topic concerns the Information Structure, an area of linguistics studied in particular by the *Prague School*. The Topic is usually intended as the item that the sentence is about, as opposed to the Focus, which can be considered the information given about the Topic (*inter alia* Lambrecht 1994). In addition to the introduction of a new referent (new Topic), the Topic can also recall a referent already present in the text (Topic continuity; cf. Givón 1983), and have a constrastive function (contrastive Topic; cf. Büring 1999). As far as stylistic requirements are concerned, correlations in conjunction, see (6), negative conjunction, see (7), or opposition, see (8), are, in a sense, also examples of isocolia. In (7), for instance, there is a parallelism between οὕτε παῖδας ποιησάμενος οúte paîdas poiēsámenos 'not having begotten children' and οὕτε γυναῖκα γήμας οúte gunaîka gémas 'not having married' (a collocation for 'taking a wife'). Similarly, in (1), there is a parallelism between the analytic construction παῖδας ποιησάμενος paîdas poiēsámenos 'having begotten children' and the SV λαβών labôn 'having taken (as a wife)', in addition to the hyperonymy relation regarding θυγατέρ' thugatér' 'daughter'. Thus, several textual reasons for selecting the analytical construction may be involved.

the Spartiates as numerous as possible', in addition to the fact that π οιεῖσθαι π αῖδας *poieîsthai paîdas* 'have children' constitutes a case of Topic continuity: in this instance, it conveys given semi-active information, in Chafe's (1987) terms—of which the Topic is the linguistic correlate—since the increase in the number of Spartiates implies the increase in births:

(10)βουλόμενος γὰρ ὁ νομοθέτης ώς boulómenos gàr ho nomothétēs hōs desire.ptcp.mid/pass.nom.m for art.nom.m lawgiver.nom.m as εἶναι τοὺς Σπαρτιάτας, πλείστους eînai toùs Spartiátas pleístous numerous.sup.acc.m.pl be.inf art.acc.m.pl Spartiates.acc.m.pl πολίτας őτι προάγεται τοὺς proágetai toùs polítas hóti induce.3sg.mid/pass art.acc.m.pl citizen.acc.m.pl as πλείστους ποιεῖσθαι παῖδας. pleístous poieîsthai paîdas numerous.sup.acc.m.pl make.inf.mid/pass child.acc.m.pl 'For the lawgiver desiring to make the Spartiates as numerous as possible holds out inducements to the citizens to have as many children as

(Aristotle, *Politics* 1270b)

Eventually, a case of Topic continuity is also quoted in (11); this is the only case in which the noun $\pi\alpha\tilde{\iota}\delta\alpha\varsigma$ paîdas 'children' is definite:¹²

(11) Καλῶς. ἔλθωμεν δ' έπὶ τὰ νυμφικά, Kalôs élthōmen ď epì tà vumphiká well come.aor.sbjv.1pl prt to art.acc.n.pl nuptial.acc.n.pl διδάξοντές τε αὐτοὺς πῶς χρὴ καὶ didáksontés autoùs pôs khrḕ kaì te instruct.fut.ptcp.nom.m.pl and DEM.ACC.m.pl how ought.3sg and τίνα τρόπον τοὺς παῖδας ποιεῖσθαι paîdas poieîsthai tína trópon toùs Q.ACC.M manner.ACC.M ART.ACC.M.PL child.ACC.M.PL make.INF.MID/PASS

possible'

¹² Definiteness may be regarded as a property whereby the discourse referent can be identified with another, previously introduced, discourse item (von Heusinger & Kaiser 2003: 44–45, *inter alia*). In this case, τοὺς παῖδας *toùs paîdas* 'the children' recalls the phrase παίδων γένεσιν *paídōn génesin* 'production of children' in Plato, *Laws* 783b; therefore, it probably answers the need to re-establish the referent after many lines.

'Very good. Let us now come to the nuptials, so as to instruct them how and in what manner they ought to produce children'

(Plato, Laws 783d)

Nevertheless, it is very difficult to gauge the reasons for the selection of the analytical construction in an instance such as $\pi\alpha$ ίδας π οιεῖσθαι paîdas poieîsthai 'to beget children' in (12):¹³

μηδ' αὖ νύκτωρ ὅταν ἐπινοῆ παῖδας (12)τις mēd' aû núktōr hótan epinoêi tis paîdas NEG so at.night when think.SBJV.3SG INDF.NOM child.ACC.M.PL ἢ καὶ γυνή. ποιεῖσθαι άνὴρ anèr è kaì guné poieîsthai make.INF.MID/PASS man.NOM.M or also woman.NOM.F '[nor should anyone whatever taste of it at all, except for reasons of bodily training or health, in the daytime; nor should anyone do so by night – be he man or woman – when proposing to procreate children' (Plato, Laws 674b)

In this passage, the circumstances in which it is forbidden to drink wine are listed. The choice of the analytical form might be due to the fact that the incorporation is generally used with regard to men, while in this instance the prohibition to drink wine in case of procreation is valid for men and women. Alternatively, the very co-occurrence of $\pi\alpha\tilde{\iota}\delta\alpha\varsigma$ paîdas 'children' with 'man' and 'woman' might have played a role in the choice of the free form, this being a sort of third element, i.e., a possible result of their union. Finally, the author's usus scribendi should perhaps also be considered, since 4 of the 10 analytical forms (40%) appear in Plato vs. 5 of the 31 instances of incorporation (16.13%) do. ¹⁴

To sum up, regarding the first research question, the selection of an analytical construction is usually made for textual reasons, namely, the need to establish a referent in the discourse, which might possibly be "manipulable" in Hopper &

¹³Loeb's translation—which we follow (cf. fn. 1)—is a little perplexing here; one reviewer suggested 'nor should anyone—man or woman—do so by night, when...'.

¹⁴For the sake of comprehensiveness, in one of the two occurrences that have not been analysed in the text (Demosthenes, *Speech* 45.81), $\pi\alpha$ īδας *paîdas* 'children' as a free form is due to the need to establish an object taken up by an object predicative ('after being allowed to beget children as brothers to your own masters'). In the other instance (Isocrates, *Speech* 4.42), the occurrence of the noun is a free form because it is in the genitive case, having a partitive value with regard to the pronominal forms τοὺς μὲν... τοὺς δ' toùs mèn... toùs d' 'some... others' (see fn. 9).

Thompson's (1984: 711–713) terms. By contrast, incorporated nouns do not perform such a function in Ancient Greek. In Information Structure terms, the occurrence of $\pi\alpha\tilde{\imath}\delta\alpha\varsigma$ paîdas 'children' as a free form usually has the function of (re-)establishing the Topic. The requirement of referentiality in discourse terms also applies in cases of the specificity of the noun; in other words, referentiality at the textual level can combine with referentiality at the logical-semantic one.

3 Second research question: the nature of analytical constructions equivalent to incorporation

In order to establish the reasons for the selection of either analytical or synthetic constructions, our second research question is twofold: (i) to verify whether analytic constructions are always SVCs or not, and (ii), in the latter case, to clarify the differences between types, particularly in terms of the possible equivalence with instances of incorporation.

The answer to the first part of the question is clear: analytical constructions are not always SVCs. Even if we only take into account the analytical constructions with $\pi o i \epsilon \omega \ poi \epsilon \bar{o}$ 'to do, make'—the focus of this article—in many of them the verb does not co-occur with predicative nouns (Section 3.2.1).

As for the second part of the research question, when the verb π oié \bar{o} 'to do, make' co-occurs with predicative nouns, we need to examine the meaning of predicativeness in relation to a noun (Section 3.2). This leads to interesting findings: nouns that occur in analytic constructions usually considered SVCs do not belong to the same type. Indeed, it is possible to identify two different cases: (i) nouns that acquire a full predicative value in co-occurrence with an SV (simple-event nominals), and (ii) nouns that fully inherit the event structure of the verb from which they derive (complex-event nominals) (Section 3.2.2). Only the former type has equivalent instances of incorporation. A third type of noun comprises non-eventive nouns that can sometimes acquire an eventive interpretation (Section 3.2.1).

3.1 Corpus and methodology

The data considered in this second part of the study were taken from the main corpus (described in Section 1).¹⁵ As for the methodology, firstly, the reverse dic-

¹⁵The *Thesaurus Linguae Graecae* query also covered the Archaic period, although no occurrences of the forms in question were found. For this reason we consider our corpus as starting from the 5th c. BC.

tionary of Ancient Greek by Kretschmer & Locker (1977) was used to draw up the list of instances of incorporation in $-\pi o \iota \acute{\epsilon} \omega$ -poi\'eo 'to do, make'.

The instances of incorporation were then searched for in the *Thesaurus Linguae Graecae* to find their occurrences, which amount to 74 in the period considered. Subsequently, instances of noun incorporation were divided into two groups on a semantic basis, namely, instances of non-eventive noun incorporation (58) and instances of eventive noun incorporation (16). Successively, the *Thesaurus Linguae Graecae* was queried in order to identify the equivalent analytical constructions.

3.2 Support-verb constructions, incorporation, and the predicativeness of nouns

Predicative nouns that occur in SVCs are not only and not always deverbal nouns. A seminal study on this topic was made by Gross & Kiefer (1995). In addition to nominalisations, i.e., deverbal nouns, Gross & Kiefer identify two further types of predicative non-deverbal nouns: those with the event reading in their lexical representation (e.g., French *orage* 'storm', *coup* 'blow', *épidemie* 'epidemic'), and those whose event interpretation is due to a conceptual shift to a dynamic reading (e.g., when *film* stands for 'the screening of the film'). Indeed, Vendler (1967: 141) had noted that among nouns there are what he calls *disguised nominals*: "Fires and blizzards, unlike tables, crystals or cows, can occur, begin and end, can be sudden or prolonged, can be watched and observed—they are, in a word, events and not objects". From the actional point of view, the fact that the referents of *disguised nominals* "can occur" means that they are [+dynamic], i.e., events, as opposed to states; conversely, the fact that they can "begin and end" means that they have the feature [+durative].

Grimshaw (1990: 58–59) defines non-deverbal nouns (e.g., race, trip, and exam) as simple-event nominals. They differ from complex-event nominals—i.e., nominalisations, which inherit the argument and event structure from the verb from which they derive—since the former cannot co-occur with the modifiers that are used to detect telicity ("in-x-time") and atelicity ("for-x-time": e.g., *Jack's trip in five hours / for five hours was interesting), as opposed to the latter (see, e.g., the nomen actionis construction in Caesar's construction of the bridge in five months).

¹⁶The quantitative data presented in this section are the results of an initial survey (the study of the data is part of a doctoral thesis in progress). On a morphological basis, in addition to instances of noun incorporation, 27 instances of incorporation with an adjective as the first element were also identified (e.g., ἀγιοποιέω hagiopoiéō 'to sanctify' and ἀγαθοποιέω agathopoiéō 'to do good, make good, do well') making for a total of 101 incorporations.

According to Grimshaw (1990: 59), this means that what characterises complex-event nominals "is not a matter of temporal extent, but of an internal semantic analysis of the event provided by the event structures [...]". ¹⁷ It is noteworthy that Borer (2013: 56) observes that "simple" events are fully compatible, syntactically, with "complex" events, insofar as arguments and event modification are possible providing a light verb is present". Moreover, Grimshaw (1990: 50–59) notes that simple-event nominals behave like result nominals (see, e.g., the *nomen rei construction* in *That construction in five months / for five months is horrible) and she considers both as noun-like, unlike complex-event nominals, which are verb-like.

All these observations on the eventive nature and the degree of predicativeness of nouns are highly relevant in understanding their occurrence within SVCs and incorporation. Indeed, from the perspective of SVCs as complex predicates, the semantic contribution of the verb is not null (which is in contrast to how it is considered in the binary conception of predicative noun vs. "light" verb/"support" verb (Section 1)). Indeed, the contributions of the noun and the verb to predicativeness can be considered complementary and, in a sense, inversely proportional, on a continuum.

In the following sections, an attempt will be made to position the various analytical constructions (both effective SVCs (Section 3.2.2) and not (Section 3.2.1)) and their possible equivalent instances of incorporation on this continuum, according to the different noun types (Section 4).

3.2.1 Analytical constructions and incorporation with non-eventive nouns

Non-eventive nouns are mostly concrete nouns, which denote first-order entities in Lyons's (1977: 443) terms, namely, they do not have any degree of predicativeness. ¹⁸ We can exemplify this type firstly by means of the noun $\alpha \rho \tau o c$ $\alpha r to c$ 'cake,

¹⁷Indeed, Grimshaw (1990) simple-event nominals correspond to Vendler's (1967) disguised nominals: they can co-occur with "happening" verbs (e.g., *The race will take place tomorrow*), with phasal verbs (e.g., *The trip started badly*), and with prepositions having a similar function (e.g., *during lunch*). On noun actionality, see also Simone (2003), and recently Pompei (in press).

¹⁸ In fact, besides instances in which the non-eventive noun is actually concrete (e.g., ἀνδριαντο-andrianto- 'statue', γεφυρο- gephuro- 'bridge', λυχνο- lukhno- 'lamp', οἰνο- oino- 'wine'), there are others in which it is abstract, albeit non-eventive (e.g., μελο- melo- 'lyric poem', θεσμο-thesmo- 'law', ὀνοματο- onomato- 'name'). Concrete nouns that can also acquire an eventive value—e.g., σῖτος sîtos 'grain, meal' ((17) below)—have been classified for now according to their basic concrete semantic value. From the perspective of the syntactic function that the incorporated noun would have in the equivalent analytical construction, in many cases it is that of the object predicative, exclusively (e.g., θεοποιέω theopoiéō 'deify') or in addition to that of the object (e.g., ἀρτο- arto- 'cake, loaf, bread'; cf. fn. 21).

loaf of wheat-bread, bread', which is present in 16 analytical constructions (Table 3) and 9 instances of incorporation (Table 4):¹⁹

Table 3: Occurrences of ἄρτον ποιέω árton poiéō 'to make bread'

Herodotus	Xenophon	Hippocrates	Theophrastus
2	1	4	2
Septuagint (LXX)	Josephus	Plutarch	Total
5	1	1	16

Table 4: Occurrences of ἀρτοποιοῦμαι artopoioûmai 'to make bread'

Strabo	Josephus	Dioscorides Medicus	Total
2	1	6	9

An example of an analytical construction is given in (13) and one of incorporation in (14):

(13) ἀρτοφαγέουσι δὲ ἐκ τῶν ὀλυρέων artophagéousi dè ek tôn oluréōn eat.bread.3pl prt from art.gen.f.pl coarse.grain.gen.f.pl

ποιεῦντες ἄρτους, τοὺς ἐκεῖνοι poieûntes ártous toùs ekeînoi

make.ptcp.nom.m.pl loaf.acc.m.pl rel.acc.m.pl dem.nom.m.pl

κυλλήστις ὀνομάζουσι. kulléstis onomázousi cyllestis.ACC.F.PL call.3PL

'They eat bread, making loaves which they call "cyllestis" of coarse grain' (Herodotus, *Histories* 2.77.4)

¹⁹ Out of 16 occurrences of analytical construction, 15 have the verb in the active voice and 1 has it in the middle-passive voice; the noun is a plural accusative in 11 occurrences and a singular accusative in the remaining 5 occurrences; only in 2 instances does the plural ἄρτους *ártous* co-occur with the article. As far as the 9 instances of incorporation are concerned, 6 are in the middle-passive voice, while 3 are in the passive voice. Two attestations of ἄρτον ποιεῖω *árton poieiō* in Clemens Romanus—but more likely Pseudo-Clemens—(Clemens Romanus, *Homiliae* 2.32.3, Pseudo-Clemens, *Epitome de gestis Petri* 33) have been excluded from the count because of their uncertain attribution and dating.

(14) εἶτ' ἀρτοποιοῦνται σίτου μικρὰ eît' artopoioûntai sítou mikrà then make.cake.mid/pass.3pl grain.flour.gen.m a.bit.of καταμίξαντες· katamíksantes mix.aor.ptcp.nom.m.pl

'[The vertebral bones serve as mortars in which fish, which have been previously dried in the sun, are pounded.] Of this, with the addition of flour, cakes are made'

(Strabo, Geography 15.2.2)

In these occurrences, the meaning of the verb $\pi o i \epsilon \omega$ $poi \epsilon \bar{o}$ 'to do, make' is its full lexical value, namely, 'to create, realise'. This means that the verb is not an SV in this case, and the analytical constructions are not SVCs.

As far as semantic roles are concerned, the basic meaning of the verb implies an Agent and an incremental Theme denoting the entry of a new entity into the state of existence and its development at all the stages of production, as in the case of 'to make loaves' and 'to make cakes' with dried fish by the Ichthyophagi in (13) and (14), respectively.²⁰ In this case too, noun concreteness and genericness being equal, the choice of the analytical construction in (13) is for textual reasons, i.e., the requirement of a head noun for the relative pronoun, i.e., of a referent for the reference tracking.

An apparently similar case is the co-occurrence of the concrete noun $\sigma \tilde{\imath} \tau o \varsigma s \hat{\imath} tos$ 'grain, food, allowance of grain' with the verb both in analytical constructions (Table 5), exemplified in (15–16), and in instances of incorporation (Table 6), exemplified in (17):²¹

(15) πλουτεῖς εἰκότως, ἐπειδὰν ποιῆς σίτου μὲν plouteîs eikótōs epeidàn poiêis sítou mèn be.rich.2sg naturally as make.sbjv.2sg grain.gen.m prt

²⁰This value is identified perfectly by Plato, Symposium 205b, where the ποίησις $poi\bar{e}sis$ 'creation, production' is described as the cause of anything that passes from not being into being; we thank Adele Teresa Cozzoli for this suggestion. In truth, the incorporation often has the value of 'to make [something] into bread' (e.g., 'acorn flour' in Strabo, Geography 3.3.7), where the incorporated noun is equivalent to the predicative object of the analytical form rather than its object.

²¹As for the analytical constructions, 4 verbs out of 5 are active and 1 is middle-passive. The noun is always singular: in the accusative in 3 occurrences, in the genitive in 2 (once with the article) given that the object of the verb is actually the quantity of the bread (cf. 15). There are 3 occurrences of incorporation in the active voice and 3 in the middle-passive.

Table 5: Occurrences of σῖτον ποιέω síton poiéō 'to make grain, bread, food'

Xenophon	Plato	Demosthenes	Aristotle	Total
1	1	2	1	5

Table 6: Occurrences of σιτοποιέω $sitopoi\'e\bar{o}$ 'to make bread, food, a meal'

Euripides	Xenophon	Dioscorides Medicus	Total
1	3	2	6

μεδίμνους πλέον η χιλίους medímnous pléon $\dot{\mathbf{e}}$ khilíous

medimnus.ACC.M.PL more than thousand.ACC.M.PL

'you [...] are a rich man, naturally, for you make more than a thousand medimni of grain'

(Demosthenes, *Speech* 42.31)

[...] ἄλλο (16)τι ἢ σῖτόν ποιοῦντες καὶ è sîtón állo poioûntes ti te kai other.ACC.N thing.ACC.N or bread.ACC.M and make.PTCP.NOM.M.PL and οἶνον καὶ ἱμάτια καὶ ὑποδήματα; kaì himátia oînon kaì hupodémata wine.ACC.M and garments.ACC.N.PL and shoes.ACC.N.PL

'Will they not make bread and wine and garments and shoes?'

(Plato, Republic 372a)

(17)σιτοποιεῖσθαί γὰρ ἀνάγκη άμφοτέρους, sitopoieîsthai te gàr anánkē amfotérous meal.make.inf.mid/pass and for necessity.nom.f both.acc.m.pl κοιμᾶσθαί ἀνάγκη άμφοτέρους koimâsthai anánkē amfotérous te sleep.INF.MID/PASS and necessity.NOM.F both.ACC.M.PL 'for instance, you must both eat, and you must both sleep' (Xenophon, Cyropedia 1.6.36).

Interestingly, also in this case the analytical structure allows the noun to occur with a concrete, specific, and definite value, see (16), although here the frequent

metonymy of the substance ('grain') for the product ('bread') applies. The concrete meaning of 'grain' is retained in (15). Whereas in (16) the value of the verb is the full lexical one, in (15) it is to some extent bleached, as it means to 'to harvest, put together' a quantity of cereal; this would also be the case with 'grain' as an object. This value can perhaps be called effective, in the sense that an effect is produced, even if not through a process of concrete and direct realisation of an incremental Theme.²²

In both examples the analytical constructions are not SVCs. As far as incorporation is concerned, the noun can also acquire a dynamic reading via an abstraction process, as happens in (17), through the metalepsis 'meal' < 'food' < 'bread' < 'grain'. Indeed, according to Gross & Kiefer (1995), this would be a case of event interpretation due to a conceptual shift (Section 3.2). In this instance, the value of the verb is completely bleached, and it only retains its event structure of a process in accordance with a noun that has acquired an event reading; nevertheless, this is an incorporation and not an analytical construction. It is therefore not an SVC.

If we now reconsider the analytical construction $\pi\alpha$ ῖδας π οιεῖσθαι paidas poieisthai 'beget children' (Section 2), the noun in this case denotes a concrete entity of the first order in Lyons's terms (1977: 443). The verb clearly means 'to create', although it only denotes the moment of the generation, or of the birth (in the case of the value 'to bear children' for the woman), rather than all the development stages of an incremental Theme. From this perspective, we cannot consider this analytical construction an SVC, since, on the one hand, the verb is not lexically empty, and on the other, the noun is not eventive. In this sense, this analytical construction cannot be considered as a "noun-oriented" collocation (Section 1, fn. 5). Also in this case, an effective value of the verb may be involved, as an effect is, in fact, produced. 23

3.2.2 Analytical constructions and incorporation with event nouns

The co-occurrence of the verb $\pi o i \epsilon \omega$ poi $\epsilon \bar{o}$ 'to do, make' with event nouns is the instance in which instances of incorporation and SVCs overlap perfectly.²⁴

 $^{^{22}}$ See Pompei et al. (2023: 140) on the use of this label with reference to the Italian *fare rumore* 'to make noise'. However, in this case there is the production of a state of affairs, unlike the instance in (15).

²³Therefore, the result of the reduction test seems to be due to the relational nature of the noun. As for the possible equivalence with synthetic verbs, this is consistent with the equivalence with an incorporation (which denotes a conceptually unitary state of affairs).

²⁴In truth, the list of eventive nouns currently includes some stative nouns (e.g., ἐλπιδο- elpido- 'hope', voσo- noso- 'sickness'), that are non-eventive by definition, not being dynamic (Section 3.2), although they are durative like eventive nouns. In these cases, the verb always has a causative value.

However, simple-event nominals in Grimshaw's (1990) terms (Section 3.2) need to be distinguished from complex-event ones.

To exemplify simple-event nouns, we can consider the noun ἄριστον áriston '(morning) meal, breakfast, lunch'; this contains the event reading in its lexical structure, which is not the case with σῖτος sîtos 'grain, food, allowance of grain', see (17). Its occurrences in analytical constructions and instances of incorporation are listed in Table 7 and Table 8, respectively.²⁵

Table 7: Occurrences of ἄριστον ποιέω áriston poiéō 'to make / have breakfast, lunch'

Thucydides	Herodotus	Xenophon
1	2	1
Hippocrates	New Testament (NT)	Total
1	1	6

Table 8: Occurrences of ἀριστοποιοῦμαι aristopoioûmai 'to make / have breakfast, lunch'

Thucydides	Xenophon	Demosthenes	Polybios
6	17	2	5
Diodorus Siculus	Philo	Aristonicus	Josephus
1	1	2	2
Onosander (Onasan	der) Tacticus	Plutarch	Total
3		4	43

The structures are exemplified in (18) and (19):

(18) ἱκανὸς γάρ ἐστι καὶ νυκτὶ ὅσαπερ ἡμέρᾳ hikanòs gár esti kaì nuktì hósaper hēmérai able.nom.m.sg for be.3sg and night.dat.f as day.dat.f

²⁵In this case, the number of instances of incorporation (43) is far greater than the number of analytical constructions (6). In the latter, 5 out of 6 verbs are in the middle-passive with the meaning of 'to have breakfast / lunch'; the only occurrence in the active (NT Luke 14.12) means 'to make lunch' for guests. On the other hand, all 43 instances of incorporation are in the middle-passive voice and mean 'to have breakfast / lunch' or 'to make breakfast / lunch' for themselves. The noun is always in the accusative singular and only once co-occurs with the article.

καὶ ὅταν σπεύδη, χρῆσθαι, ἄριστον καὶ chrêsthai kaì hótan speúdēi, áriston kaì use.INF.MID/PASS and when hasten.SBIV.3SG breakfast.ACC.N and δεῖπνον ποιησάμενος ἄμα πονεῖσθαι. poiēsámenos háma deîpnon poneîsthai. dinner.ACC.N make.AOR.PTCP.MID.NOM.M.SG together labour.INF.MID/PASS 'For he is able to make as good use of night as of day, and when he is in haste, to take breakfast and dinner together and go on with his labours' (Xenophon, Hellenica 6.1.15)

(19) ταῦτα ποιήσαντες taûta poiḗsantes

DEM.ACC.N.PL make.AOR.PTCP.NOM.M.PL

ήριστοποιοῦντο.

 $\bar{e}risto poio \hat{u}nto$

make.breakfast.IMPF.MID/PASS.3PL

'[When they had done all this,] they set about preparing breakfast'
(Xenophon, *Anabasis* 3.3.1)

This noun has the same meaning both when incorporated, see (18), and when occurring independently, see (19), in an SVC. In (18), we find the only independent occurrence of $\alpha \rho \omega \sigma \sigma v$ 'breakfast' in Xenophon (vs. 17 instances of incorporation); this seems to be due to its coordination with $\delta \epsilon \tilde{\iota} \pi v o v de \hat{\iota} p n o v$ 'dinner'.

Another interesting case of a simple-event noun is πόλεμος *pólemos* 'war, battle' which has been formally linked to πελεμίζω *pelemízō* 'to shake, tremble' (Beekes 2010: s.v. πόλεμος), but certainly cannot be considered a deverbal noun. Table 9 presents the occurrences in analytical constructions for the period under consideration.

Table 10 presents the instances of incorporation. They are exemplified in (20) and (21), respectively:²⁶

²⁶Of the 87 occurrences of the analytical construction, 51 have an active verb, with a causative value, whereas 36 have a middle-passive verb, meaning 'to make war' (on this cf. Jiménez López 2012, 2016). The noun is usually singular (82 instances, of which 35 co-occur with the article) with the exception of 5 occurrences (of which 3 co-occur with the article). By contrast, all the instances of incorporation are active forms, having both the meaning of 'to make war' and 'to provoke war'. Two attestations of the analytical construction have been excluded from the count, *Oracula Sibyllina* 1.9 and *Testamenta XII Patriarcharum* 7.5.10, owing to their uncertain dating.

Table 9: Occurrences of πόλεμον ποιέω pólemon poiéō 'to provoke, make war'

Thucydides	Isocrates	Andocides	Xenophon	Plato
16	5	2	5	3
Septuagint (LXX)	D.	Aeschines	Polybios	Lysias
18	18	1	2	1
Diodorus Siculus	Dionysius Halicarnassensis		Philo	Strabo
3	1		2	2
New Testament (NT)	Josephus	Plutarch	Total	
4	1	3	87	

Table 10: Occurrences of πολεμοποιέω polemopoié \bar{o} 'to provoke, make war'

Xenophon	Hippocrates	Diodorus Siculus	Philo	Plutarch	Total
1	1	1	3	1	7

(20)καὶ τῆ πόλει ώφελιμώτερον εἶναι ἔφη ōphelimóteron kaì têi рólеі éphē eînai and ART.DAT.F.SGS city.DAT.F profitable.COMPV.ACC.N IMPF.3SG be.INF πρὸς τοὺς έν τῆ γώρα σφῶν chốrai pròs toùs en têi sphôn against ART.ACC.M.PL in ART.DAT.F country.DAT.F 3PL.GEN έπιτειχίζοντας τὸν πόλεμον ποιεῖσθαι epiteichízontas tòn pólemon poieîsthai fortify.PTCP.ACC.M.PL ART.ACC.M war.ACC.M make.INF.MID/PASS than Συρακοσίους Surakosíous

Syracusan.ACC.M.PL

'He also said that it would be more profitable for the state to carry on the war against those who were building fortifications in Attica, than against the Syracusans'

(Thucydides, *Histories* 7.47.4)

(21) εἴτε προφάσει χρώμενοι ταύτῃ τοῦ eíte prophásei chrômenoi taútēi toû
 either pretext.dat.f use.ptcp.mid/pass.nom.m.pl dem.dat.f art.gen.n

```
ταράττειν καὶ πολεμοποιεῖν.

taráttein kaì polemopoieîn

disturb.inf and make.war.inf

'[It is uncertain whether...] they used this pretext for raising disturbance
and war'
```

(Plutarch, *Life of Otho* 3.2)

In this case, the choice of SVCs is often due to the fact that the war is a specific and definite one, as in (20). Moreover, instances of incorporation appear later, probably because of competition with the denominative verbs πολεμέω poleméō 'to battle, fight a war' and πολεμίζω polemízō 'to fight'.

It is also noteworthy that $\mu\acute{\alpha}\chi\eta$ $m\acute{a}kh\bar{e}$ 'battle, combat' only occurs in SVCs as the equivalent incorporation does not exist.²⁷ From our perspective, this is due to the fact that this is a complex-event nominal relating to the verb $\mu\acute{\alpha}\chi\sigma\mu\alpha\iota$ $m\acute{a}khomai$ 'to fight'. In Grimshaw's (1990) terms, this means that the predication of 'fighting' is denoted by the noun alone, which fully inherits the argument and event structures of the verb (Section 3.2). Of course, it is possible that the incorporation did not develop precisely because of the existence of this verb, although it is interesting that it did develop in the case of $\pi\acute{o}\lambda\epsilon\mu\sigma\varsigma$ $p\acute{o}lemos$ 'war, battle', despite other existing verbal forms. Moreover, the same is true of all the other deverbal nouns (such as $\pi\lambda\acute{o}\sigma\varsigma$ $p\acute{o}s$ 'navigation', $\phi\nu\lambda\alpha\kappa\acute{\eta}$ $phulakh\acute{e}$ 'watching, guarding', and so on). The alternation between SVCs with deverbal nouns and the synthetic verb from which they derive follows semantic and textual principles (Tambasco 2021) similar to those that we have seen for the selection of SVCs equivalent to instances of incorporation.

4 Conclusions

In this chapter, a comparison between analytical constructions and instances of incorporation with $\pi o i \epsilon \omega$ poiéō 'to do, make' has been made with a twofold aim: (a) to identify the reasons for selecting either analytical constructions or synthetic verbs, and (b) to verify whether analytic predicates are always SVCs.

The answer to the first research question is that the selection of analytical constructions is mainly due to textual reasons, i.e., the establishment of the referent in the discourse, which also has some consequences on the Information

²⁷On SVCs with ποιέω poiéō 'to do, make' and πόλεμος pólemos 'war, battle' or μάχη mákhē 'battle, combat', see Jiménez López (2012, 2016) and Baños (2015).

Structure, particularly on Topic (re-)establishment (Section 2.3); secondarily, semantic reasons such as specificity can play a role (Section 2.2).

As for the second research question, it is clear that only analytical constructions with eventive nouns can be considered SVCs (Section 3). These fall into two types, namely, simple-event nominals, and complex-event ones (Section 3.2). The comparison with instances of incorporation can be made only when the eventive noun in the SVC is a simple-event nominal (Section 3.2.2), in addition to cases of analytical constructions where $\pi o \iota \acute{\epsilon} \omega$ $poi \acute{\epsilon} o$ 'to do, make' co-occurs with non-eventive nouns (Section 3.2.1). Incorporated simple-event nominals are nouns with the event reading in their lexical representation (e.g., $\mathring{\alpha} \rho \iota \sigma \tau o v$ $\acute{a} riston$ '(morning) meal, breakfast, lunch', $\pi \acute{\alpha} \lambda \epsilon \mu o \varsigma$ $p\acute{o}lemos$ 'war, battle'); besides, other nouns may acquire an event interpretation thanks to a conceptual shift to a dynamic reading (e.g., $\sigma \iota \tau o \varsigma$ sitos 'grain, food, allowance of grain'). By contrast, analytical constructions made up of complex-event nominals do not alternate with instances of incorporation, but only with the verb from which the noun derives.

These findings are illustrated in Figure 1.

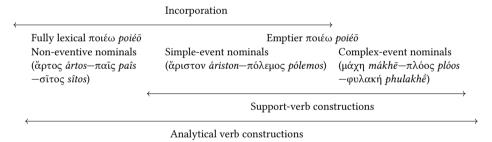


Figure 1: The noun predicativeness—verb lightness continuum

Abbreviations

COMPV comparative
NT New Testament
SUP superlative

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Contributions

The text is the result of cooperation between the three authors. Nevertheless, for academic purposes, Flavia Pompeo is responsible for Section 1, Anna Pompei for Sections 2, 3, 3.2, 3.2.1, 3.2.2, and Eleonora Ricci for Sections 2.1, 2.2, 2.3, 3.1. The final section (Section 4) is to be ascribed jointly to Anna Pompei and Flavia Pompeo. We thank Victoria Fendel and two anonymous reviewers for their useful comments and suggestions; any remaining errors are our own.

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